

ABSTRACT OF THE DISCLOSURE

A stimulation electrode has an electrode surface at least partially covered with a coating of titanium nitride, the titanium nitride having on its side remote from the electrode surface a larger surface than the region of the electrode surface covered by the titanium nitride. The titanium nitride
5 is covered with at least one oxidation protection layer on its surface remote from the electrode surface. The stimulation electrode is useful, for example, in cardiac pacemakers, neuro-stimulation devices and other human implants.